#3667

QUALITY ASSURANCE PROJECT PLAN
FOR CARTER COLOR COAT REMOVAL SITE SAMPLING

Prepared For
U S Environmental Protection Agency
Region 5
Emergency Response Branch
9311 Groh Road
Grosse Ile, MI 48138

Region 5 Superfund Program
Project Information -- Title and Approval Page

Carter Color Coat Removal Site, Detroit, MI Assessment QAPP U S EPA Region 5 Emergency Response Branches I

Karen Campbell, U S EPA START Contractor, TN&A
Preparer's Name and Organizational Affiliation

100 West Monroe, Suite 300, Chicago, IL (312) 220-7000, kcampbell@tnainc com
Preparer's Address, Telephone Number, and E-mail Address

10/13/08
Preparation Date (Day/Month/Year)

Investigative Organization's Project Manager _____
Signature

_____
Printed Name/Organization/Date

Lead Organization's Project Manager _____
Signature

_____
Printed Name/Organization/Date

---

1 1 Distribution List

QAPP Recipients	Title	Organization	Telephone Number	Fax Number	E-mail Address
Steve Ostradka	Chief Field Services Section 1	U S EPA Region 5	312 886-3011		Ostrodka stephen@epamail epa gov
Jeff Kimble	FOSC	U S EPA Region 5	734-692-7688	734-692 7677	Kimble Jeffery@epamail epa gov
Karen Campbell	Project Manager	TN& Associates	317-313-1136		kcampbell@tnainc com

1 2 Project/Task Organizational Chart

Overall QA Project Officer Jeff Kimble

Lead Organization Project Manager Karen Campbell

Lead Organization U S EPA Emergency Response Branch (ERB) 1

Investigative Organization TN& Associates (STN)
Role Sampling/Consulting
Project Manager Karen Campbell

Subcontractors Environmental Quality Management (EQM)
Organization U S EPA Emergency Rapid Response Services (ERRS) Contractor
Role Lab Procurement/Analytical Review
Project Contact Jackie Doan

Subcontractors TN& Associates, Sullivan International
Organization Superfund Technical Assistance and Response Team (START)
Role Site Lead
Project Contact Karen Campbell

1 3 Problem Definition/Background

Description This site specific Quality Assurance Project Plan form is prepared as an addendum to the *Quality Management Plan for the Superfund Technical Assessment and Response Team (START) (October 2006),* and contains site-specific data quality objectives for the sampling activities described herein

Problem Definition and Background
The site for a Time Critical Removal Action being conducted by the U S EPA Emergency Response Branch The scope of the sampling activities is to document and evaluate potential threats to human health, welfare, and the environment posed by conditions at Carter Color Coat (Site)

1 4 Project Task Description

CERCLA Removal Action

1 5 Quality Objectives and Criteria for Measurement Data

A Accuracy
B Precision
C Representativeness
D Completeness*
E Comparability

Other Description

* A completeness goal of 100 percent has been established for this project However if the completeness goal is not met EPA may still be able to make site decisions based on any or all of the remaining validated data

1 6 Special Training/Certification Requirements

☒ OSHA 1910

☒ Special Equipment/Instrument Operator Field personnel familiar with soil sampling

1 7 Documentation and Records

A Field Sheets
B Site Log
C Site Maps
D Chain of Custody
E Health and Safety Plan
F Photos
G Sample Documentation will follow EPA SOP 2420 5

2 0 Measurement and Data Acquisition

2 1 Sampling Process Design

The Proposed sampling scheme for this project will include confirmation sampling for definitive analysis All sampling activities will be conducted in accordance with procedures included in the *Guidance for Performing Site Inspections Under the CERCLA OSWER Directive#9345 1-05*, September 1992 All samples will be submitted for analysis at an ERRS-contracted laboratory See Appendix A for additional site specific information The Proposed number of samples is a balance between cost and coverage, and represents a reasonable attempt to meet the objectives of the emergency response tasks

Sample Summary Location	Matrix	# of Samples	Analysis
Floor Debris Samples	Soil/Particulates/Debris	five (5)	PCB's

***Note Background /QC samples are not included with these totals See Table 1 for a complete summary**

2 2 Sample Methods Requirements

Matrix	Sampling Method	EPA SOP(s) Methods

Sample Summary Location	Matrix	# of Samples	Analysis
Soil/Particulates/Debris	Samples will be collected by disposable scoop and placed directly into sample containers for the appropriate analysis	5	EPA 8082-PCBs

2 3 Sampling Handling and Custody Requirements

All Samples will be identified, handled, shipped, tracked, and maintained under COC, in accordance with *Quality Management Plan for the START (October 2006),*

Other (Describe) Samples will be accepted according to procedures established by START-contracted or ERRS-contracted laboratories

2 4 Analytical Methods Requirements

Identified in attached table

Rationale The requested analyses have been selected based on that it is the contaminate of concern of the site

2 5 Quality Control Requirements

Identified in attached table

Field QC samples will be collected and analyzed for this project at the frequency described in *Quality Management Plan for the START* (October 2006) The number of QC samples collected for each analytical parameter and concentration level are listed in **Table 1 Sample Summary**

Describe Field QC Samples to be collected For this investigation, trip blanks and duplicates will not be submitted for the laboratory analyses, unless it is determined necessary by EPA Analytical results of the blank samples will be evaluated on a qualitative basis by the EPA Project Manager and EPA contractor(s) to determine a general indication of transportation-related, field-related, and laboratory-related contamination Duplicate soil samples may be taken to determine total precision

2 6 Instrument/Equipment Testing, Inspection, and Maintenance Requirements

In accordance with *Quality Management Plan for the START (October 2006)*

Other (Describe) None

2 7 Instrument Calibration and Frequency

Inspection/acceptance requirements are in accordance with the *Quality Management Plan for the START (October 2006)*

Calibration of laboratory equipment will be performed as described in the previously referenced SOPs and/or manufacturers' recommendations

Other (Describe)

Sample Summary Location	Matrix	# of Samples	Analysis

2 8 Inspection/Acceptance Requirements for Supplies and Consumables

In accordance with the *Quality Management Plan for the START (October 2006)*

All Sample containers will meet EPA criteria for cleaning procedures for low-level chemical analysis Sample containers will have Level II certifications provided by the manufacturer in accordance with pre-cleaning criteria established by EPA in *Specifications and Guidelines for Obtaining Contaminant-Free Containers*

2 9 Data Acquisition Requirements

In accordance with the *Quality Management Plan for the START (October 2006)*

Confirmation sample results will be used to determine if contact threat has been alleviated or still exists on the floors of the building after removal of the PCB-contaminated wood-block flooring

2 10 Data Management

Laboratory data acquired including documentation, record keeping, and data management activities will be conducted in accordance with the *Quality Management Plan for the START (October 2006)* and in accordance with procedures established by START-contracted or ERRS-contracted laboratories

3 1 Assessment and Response Actions

Peer Review

Management Review

Assessment and response actions pertaining to analytical phases of the project are addressed in EPA SOPs 2430 05 and 2430 12

3 1A Corrective Action

Corrective actions will be taken at the discretion of the EPA project manager whenever there appear to be problems that could adversely affect data quality and/or resulting decisions affecting future response actions pertaining to the site

4 0 Assessment and Response Actions

4 2 Data Review, Validation, and Verification Requirements

Identified in attached table

The data will be validated in accordance with the *Quality Management Plan for the START (October 2006)* Definitive data will be validated following Tier Level II

Data Review and verification will be performed by a qualified analyst and the laboratory's section manager

Data will be reviewed for usability in accordance with the *Quality Management Plan for the START (October 2006)*

4 2 Validation and Verification Methods

Identified in attached table

The data will be validated in accordance with the *Quality Management Plan for the START (October 2006)* Definitive data will be validated following Tier Level II

The EPA Project Mangers will inspect the data to provide a final review The EPA Project Managers will review the data, if applicable, for laboratory spikes and duplicates, laboratory blanks, and the field blank to ensure that they are acceptable The EPA Project Managers will also compare the sample descriptions with the field sheets for consistency and will ensure that any anomalies in the data are appropriately documented

Other (Describe) Data provided by START-contracted and ERRS-contracted laboratories will be validated by START and/or ERRS personnel in accordance with EPA-approved procedures

4 3 Reconciliation with User Requirements

Identified in attached table

If data quality indicators do not meet the project's requirements as outlined in this QAPP, the data may be discarded and re-sampling or re-analysis of the subject samples may be required by the EPA Project Manager

4 2 Validation and Verification Methods

Identified in attached table

The data will be validated in accordance with the *Quality Management Plan for the START (October 2006)* Definitive data will be validated following Tier Level II

The EPA Project Mangers will inspect the data to provide a final review The EPA Project Managers will review the data, if applicable, for laboratory spikes and duplicates, laboratory blanks, and the field blank to ensure that they are acceptable The EPA Project Managers will also compare the sample descriptions with the field sheets for consistency and will ensure that any anomalies in the data are appropriately documented

Other (Describe) Data provided by START-contracted and ERRS-contracted laboratories will be validated by START and/or ERRS personnel in accordance with EPA-approved procedures

Table 1 Sample Summary							
Site Name Carter Color Coat Removal		**Location** 6051 Hastings Street, Detroit, MI Wayne County					
START Project Manger Karen Campbell		**Activity/ASR #** Removal Action				**Date** 10-13-08	
No of Samples	**Matrix**	**Location**	**Purpose**	**Depth or other Description**	**Requested Analysis**	**Sampling Method**	**Analytical Method/SOP**
5	Soil/particulates/ Debris	Carter Color Coat Building floors	Confirmation samples	N/A	PCBs	4230 17A	EPA Methods 8082
QC Samples							
1	Soil/Particulates/ Debris	Field Duplicate	To assess lab and sampling repeatability	N/A	PCBs	4230 10A	EPA Methods 8082

Table 2 Data Quality Objective Summary								
Site Name Carter Color Coat Removal		**Location** 6051 Hastings Street, Detroit, MI Wayne County						
START Project Manger Karen Campbell		**Activity/ASR #** Removal Action					**Date** 10-13-08	
Analysis	Analytical Method	Accuracy	Precision	Representatives	Completeness	Comparability	Sampling Handling Procedure	
SOIL								
PCBs	See Table 1	Per analytical method	Per analytical method	Biased/judgmental Sampling based On professional judgment of the sampling team	100% All soil samples are critical samples	Standardized procedures for sample collection and analysis will be used	See QMP form	

Appendix A

Site-Specific Information For Removal Activities For the Carter Color Coat Removal Sampling

INTRODUCTION

The scope of the sampling activities is to collect confirmation samples to determine if the contact threat has been alleviated or still exists This QAPP will address soil/particulates/ debris sampling to assess the extent of potential contamination

SAMPLING STRATEGY AND METHODOLOGY

Sampling for laboratory analysis will be conducted as noted in the QAPP Analytical data obtained for all samples collected during this project will be compared to applicable or relevant and appropriate requirements (ARAR) to determine the extent of contamination and provide information to aid in prioritizing response and cleanup actions

SOIL/PARTICULATES/DEBRIS SAMPLING

Five soil/particulates/debris 5-point composite samples will be collected and sent to a laboratory for analysis

The soil/particulates/debris samples will be collected from what is remaining from the PCB-contaminated wood block removal areas consistent with the soil sampling procedure identified in the *Superfund Residential Sites Handbook (Office of Solid Waste Emergency Response [OSWER] 9285,7-50)* The soil sampling procedures are described below in chronological order

- Using disposable spoon and pan to collect 5-point composite from the soil/particulates/debris left on the floor
- Homogenize a 5-point composite soil/particulates/dust sample with a disposable scoop and place in an unpreserved 8 ounce glass jar
- Repeat the above steps until all three samples are collected

QUALITY CONTROL SAMPLES

A soil/particulate/debris field duplicate will be submitted for analysis of all analytes to assess sampling and lab repeatability

ANALYTICAL METHODS

All samples will be submitted to Bureau Veritas North American in Novi, Michigan Soil/particulates/debris samples will be analyzed PCBs All samples will be analyzed according to SOPs and methods referenced in the QAPP Lowest detection limits for these methods are required for this project Appropriate containers and physical/chemical preservation techniques will be

employed during the field activities to help verify that representative analytical results are obtained